Notice of Allowability	Application No.	Applicant(s)	
	09/833,236	SENA ET AL.	
	Examiner	Art Unit	
	Cam Y T. Truong	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *10/7/2005*.

2. ☒ The allowed claim(s) is/are *111,114-115 and 117-119*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. Claims 111, 114-119 are pending in this Office Action.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Brian R. Coleman, Reg. No. 39, 145 and Glenn E. Von Tersch, Reg. No. 41, 364 on 10/22/2005 & 10/26/2005.

Please replace claims 111, 117-119 with amended claims 111, 117-119 and cancel claim 116.

111. (Currently amended) A computer-implemented method for converting multi-media content into a plurality of target formats to deliver to one or more selected output devices, the method comprising the acts of:

receiving one or more input multi-media content files;

checking said one or more input multi-media content files for viruses and errors;

performing de-virusing on said one or more input multi-media content files if said one or more input multi-media content files have said viruses;

performing error-correction on said one or more input multi-media content files if said one or more input multi-media content files have said errors;

automatically identifying multi-media type primitive components in said one or more input multi-media content files after said checking, said performing de-virusing or said performing error-correction, wherein said multi-media type primitive components include audio primitive components, video primitive components, animation primitive components, text primitive components, picture primitive components, graphic primitive components, and supporting material primitive components;

automatically decomposing said multi-media type primitive components into sub-components;

automatically converting each of said sub-components of said decomposed multi-media type primitive components into corresponding intermediate format components;

integrating said intermediate format components into a single output representation file corresponding to each target format of said plurality of target formats, wherein the integrating said intermediate format components includes adding timing information and presentation support information;

adapting and routing a final output to corresponding output device, wherein adapting includes adjusting said output presentation file to fit bandwidth requirements of each selected output device; and

controlling, scheduling conversion and integration processes associated with producing said final output corresponding to each target format of a plurality of target formats.

117. (Currently amended) A computer implemented multi-media conversion and integration system for converting multi-media content into a plurality of target formats to deliver to one or more selected output devices, the system comprising:

an input handler for:

receiving one or more input multi-media content files;

checking said one or more input multi-media files for viruses and errors;

performing de-virusing on said one or more input multi-media content files if said one or more input multi-media content files have said viruses;

performing error-correction on said one or more input multi-media content files if said one or more input multi-media content files have said errors;

updating and compressing one or more input multi-media files;

a publishing manager module for controlling, scheduling conversion and integration processes associated with producing a final output file corresponding to each target format of a plurality of target formats;

a translation module for:

automatically identifying multi-media type primitive components in said one or more input multi-media content files after said checking, said performing de-virusing or said performing error-correction, wherein said multi-media type primitive components include audio primitive components, video primitive components, animation primitive components, text primitive components, picture primitive components, graphic primitive components, and supporting material primitive components;

automatically decomposing said multi-media type primitive components into sub-components;

automatically converting each of sub-components of said decomposed multi-media type primitive components into corresponding intermediate format components;

integrating said intermediate format components into a single output presentation file corresponding to each target format of said plurality of target formats, wherein the integrating said intermediate format components includes adding timing information and presentation support information; and

an output device building module for adapting and routing a final output to corresponding output device, wherein adapting includes adjusting said output presentation file to fit bandwidth requirements of each selected output device.

118. (Currently amended) A computer-readable medium carrying one or more sequence of instructions for converting multi-media content into a plurality of target formats to deliver to one or more selected output devices, wherein execution of the one or more sequence of instructions by one or more processors causes the one or more processors to perform:

receiving one or more input multi-media content files:

checking said one or more input multi-media content files for viruses and errors;

performing de-virusing on said one or more input multi-media content files if said one or more input multi-media content files have said viruses;

performing error-correction on said one or more input multi-media content files if said one or more input multi-media content files have said errors;

automatically identifying multi-media type primitive components in said one or more input multi-media content files after said checking, said performing de-virusing or said performing error-correction, wherein said multi-media type primitive components include audio primitive components, video primitive components, animation primitive components, text primitive components, picture primitive components, graphic primitive components, and supporting material primitive components;

automatically decomposing said multi-media type primitive components into sub-components;

automatically converting each of said sub-components of said decomposed multi-media type primitive components into corresponding intermediate format components;

integrating said intermediate format components into a single output representation file corresponding to each target format of said plurality of target formats, wherein the integrating said intermediate format components includes adding timing information and presentation support information;

adapting and routing a final output to corresponding output device, wherein adapting includes adjusting said output presentation file to fit bandwidth requirements of each selected output device; and

controlling, scheduling conversion and integration processes associated with producing said final output corresponding to each target format of a plurality of target formats.

119. (Currently amended) A computer implemented multi-media conversion and integration system for converting multi-media content into a plurality of target formats to deliver to one or more selected output devices, the system comprising:

means for receiving one or more input multi-media content files:

means for checking said one or more input multi-media content files for viruses and errors;

means for performing de-virusing on said one or more input multi-media content files if said one or more input multi-media content files have said viruses;

means for performing error-correction on said one or more input multi-media content files if said one or more input multi-media content files have said errors;

means for automatically identifying multi-media type primitive components in said one or more input multi-media content files after said checking, said performing de-virusing or said performing error-correction, wherein said multi-media type primitive components include audio primitive components, video primitive components, animation primitive components, text primitive components, picture primitive components, graphic primitive components, and supporting material primitive components;

means for automatically decomposing said multi-media type primitive components into sub-components;

means for automatically converting each of said sub-components of said decomposed multi-media type primitive components into corresponding intermediate format components;

means for integrating said intermediate format components into a single output representation file corresponding to each target format of said plurality of target formats, wherein the integrating said intermediate format components includes adding timing information and presentation support information;

means for adapting and routing a final output to corresponding output device, wherein adapting includes adjusting said output presentation file to fit bandwidth requirements of each selected output device; and

means for controlling, scheduling conversion and integration processes associated with producing said final output corresponding to each target format of a plurality of target formats.

Allowable Subject Matter

4. Claims 111, 114-115, and 117-119 are allowed.

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claims 111 and 117- 118, wherein "automatically identifying multi-media type primitive components in said one or more input multi-media content files after said checking, said performing de-virusing or said performing error-correction, wherein said multi-media type primitive components include audio primitive components, video primitive components, animation primitive components, text primitive components, picture primitive components, graphic primitive components, and supporting material primitive components; automatically converting each of said sub-components components of said decomposed multi-media type primitive components into corresponding intermediate format components; integrating said intermediate format components into a single output representation file corresponding to each target format of said plurality of target formats, wherein the integrating said intermediate format components includes adding timing information and presentation support information" and ;

The prior art of record alone or in combination, does not teach or fairly suggest the combination of steps as recited in independent claim 119, wherein "means for automatically identifying multi-media type primitive components in said one or more input multi-media content files after said checking, said performing de-virusing or said performing error-correction, wherein said multi-media type primitive components include audio primitive components, video primitive components, animation primitive

components, text primitive components, picture primitive components, graphic primitive components, and supporting material primitive components; means for automatically converting each of said sub-components of said decomposed multi-media type primitive components into corresponding intermediate format components; means for integrating said intermediate format components into a single output representation file corresponding to each target format of said plurality of target formats, wherein the integrating said intermediate format components includes adding timing information and presentation support information".

The dependent claims, bring definite, further limiting, and fully enabled by the specification are also allowed.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T Truong whose telephone number is (571) 272-4042 . The examiner can normally be reached on Monday to Firday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is (571) 272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cam Truong

Cam-Y Truong
Art Unit 2162
10/21/2005